

Title (en)  
METHOD FOR AN IMPROVED OPERATION OF A TELECOMMUNICATIONS NETWORK BEING OPERATED AS A MULTI-OPERATOR SLICED NETWORK, TELECOMMUNICATIONS NETWORK, SYSTEM, PROVIDER INFRASTRUCTURE CONTROL CENTER, NETWORK OF A SERVICE PROVIDER, PROGRAM AND COMPUTER-READABLE MEDIUM

Title (de)  
VERFAHREN ZUM VERBESSERTEN BETRIEB EINES TELEKOMMUNIKATIONSNETZWERKS, DAS ALS MEHRBETREIBER-NETZWERK MIT ABSCHNITTEN BETRIEBEN WIRD, TELEKOMMUNIKATIONSNETZWERK, SYSTEM, ANBIETER-INFRASTRUKTURSTEUERZENTRALE, NETZWERK EINES DIENSTANBIETERS, PROGRAMM UND COMPUTERLESBARES MEDIUM

Title (fr)  
PROCÉDÉ POUR AMÉLIORER LE FONCTIONNEMENT D'UN RÉSEAU DE TÉLÉCOMMUNICATIONS ÉTANT UTILISÉ COMME UN RÉSEAU PARTAGÉ MULTI-OPÉRATEUR, RÉSEAU DE TÉLÉCOMMUNICATIONS, SYSTÈME, CENTRE DE COMMANDE D'INFRASTRUCTURE DE FOURNISSEUR, RÉSEAU D'UN FOURNISSEUR DE SERVICES, PROGRAMME ET SUPPORT LISIBLE PAR ORDINATEUR

Publication  
**EP 3544310 A1 20190925 (EN)**

Application  
**EP 18163645 A 20180323**

Priority  
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Abstract (en)  
The invention relates to a method for an improved operation of a telecommunications network with a broadband access network, the telecommunications network being operated as a multi-operator sliced network, and especially comprising a central office point of delivery and/or a provider infrastructure control center for the service activation and/or operation of a network termination node, wherein a plurality of communication service providers being enabled to use the infrastructure of the telecommunications network for providing communication services to a plurality of users being connected to the telecommunications network using a network termination node, wherein the central office point of delivery and/or the broadband access network comprises a plurality of line termination nodes, wherein a specific line termination node of the plurality of line termination nodes is connectable to at least one specific network termination node of a plurality of network termination nodes, wherein an authentication of the specific network termination node is performed, after connecting the specific network termination node to the specific line termination node, by means of a provider federation operation, relating the specific network termination node to a specific provider of the communication service providers, wherein the method for improved operation of the telecommunications network and/or service activation and/or operation of the specific network termination node comprises the following steps:-- in a first step, the specific network termination node is connected to the specific line termination node and activated, wherein a walled garden access is provided, to the specific network termination node, to access the provider infrastructure control center of the telecommunications network,-- in a second step, subsequent to the first step, the walled garden access is used, by the specific network termination node or by a client device connected to the specific network termination node, to access a provider-specific server environment of the specific provider,-- in a third step, subsequent to the second step, the specific network termination node is authenticated and federated with the specific provider.

IPC 8 full level  
**H04Q 11/00** (2006.01)

CPC (source: EP US)  
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Citation (applicant)  
EP 17175601 A 20170612

Citation (search report)  
• [X] US 2015288578 A1 20151008 - SCHWENGLER THOMAS [US], et al  
• [X] US 6697864 B1 20040224 - DEMIRTJIS ANN [US], et al  
• [X] WO 2011160813 A1 20111229 - DEUTSCHE TELEKOM AG [DE], et al

Cited by  
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

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**EP 3544310 A1 20190925**; EP 3769540 A1 20210127; US 11153369 B2 20211019; US 2021029195 A1 20210128; WO 2019180248 A1 20190926

DOCDB simple family (application)  
**EP 18163645 A 20180323**; EP 19711394 A 20190322; EP 2019057326 W 20190322; US 201916982651 A 20190322